

Title (en)
Roof assembly for a vehicle

Title (de)
Dachanordnung für ein Fahrzeug

Title (fr)
Ensemble de toiture pour véhicule

Publication
EP 2425997 B1 20130424 (EN)

Application
EP 10174935 A 20100901

Priority
EP 10174935 A 20100901

Abstract (en)
[origin: EP2425997A1] A roof assembly for a vehicle having a roof opening (2) in its fixed roof (1) comprising a movable closure element (4) for closing and at least partly opening said roof opening. A stationary part (3) comprises guide rails (5) extending transversely of the roof opening in vehicle longitudinal direction. A closure moving mechanism (6) comprises an electric motor fixed to the stationary part, flexible drive cables (8) guided in a guide (10) through a defined path at least partly within said guide rails and being engaged by the electric motor in order to be moved through the guide and along the guide rails, and movable closure supports (6') each movably guided in the respective guide rail and connected to the closure element and to the respective drive cable to adjust the closure element, in such a way that they form a mechanical chain of parts in order to substantially fix said movable closure element in a vertical, lateral and longitudinal direction in all vehicle conditions and environmental circumstances, including in the event of a crash. The guide is constructed such that, when an excessive force is exerted on the cable by the closure element in the event of a crash, it allows the respective guide cable to deviate from the defined path dictated by the guide during normal use, to allow the closure supports and the closure element to make a limited longitudinal movement.

IPC 8 full level
B60J 7/057 (2006.01); **B60J 7/02** (2006.01)

CPC (source: EP US)
B60J 7/022 (2013.01 - EP US); **B60J 7/0573** (2013.01 - EP US)

Cited by
EP3078522A1; DE102017202547A1; CN110234528A; WO2018141691A1; US9751387B2; US10899204B2; DE102017202547B4

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